City of Alexandria, Virginia

Lucky Run Stream Restoration

Public Meeting April 11th, 2019

Department of Project Implementation

Transportation & Environmental Services
Stormwater Management Division





City of Alexandria, Virginia

PRESENTATION OUTLINE

Lucky Run Stream Restoration:

- 1. Project Overview
- 2. Design
- 3. Construction Disturbance
- 4. Construction Access
- 5. Timeline
- 6. Strawberry Run Completed Project







Project Overview - Location Map



Project Overview - Purpose

 Stabilize Lucky Run using natural channel design

- Improve water quality,
 Chesapeake Bay Pollutant
 Reductions
- Improve stream function and habitat
- Reduce sediment build-up downstream and in pond
- Enhanced aesthetics



Project Overview - Purpose

* Protect Utilities

- Sanitary sewer
- Storm sewer outfalls



Project Overview - Purpose

* Protect walking path







May 30, 2018



March 20, 2019

Project Overview - Funding

- Stormwater Local Assistance Fund Grant
 - 950 linear feet of Urban Stream
 Restoration
 - Matching Grant





DEPARTMENT OF ENVIRONMENTAL QUALITY
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David K. Paylor Director (804) 698-4000 1-800-592-5482

MEMORANDUM

Molly Joseph Ward

TO: David K. Paylor, DEQ Director

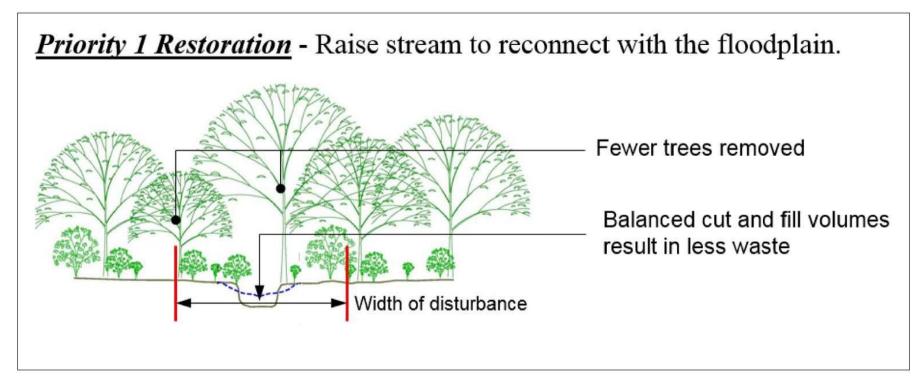
FROM: Valerie Thomson, Director of Administration

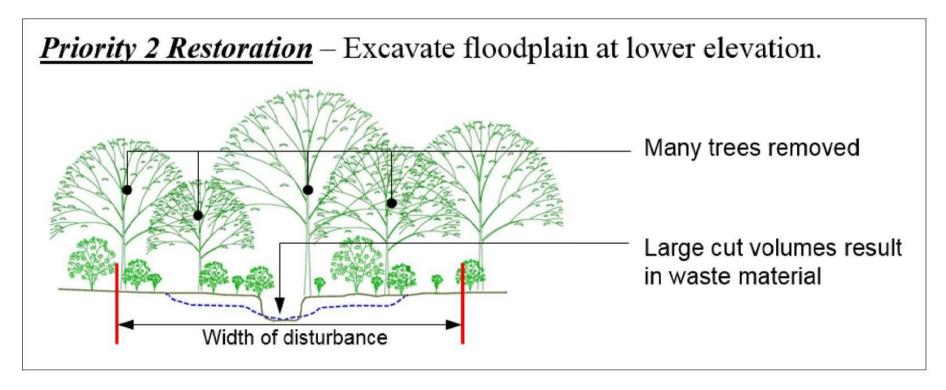
DATE: May 8, 2017

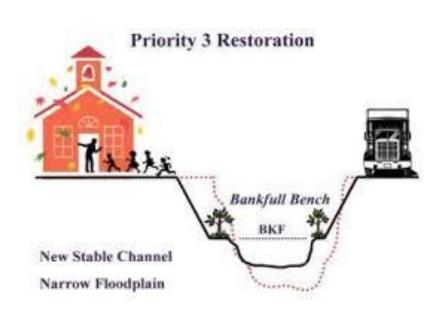
SUBJECT: Authorization of FY 2017 SLAF Project Funding List

Purpose

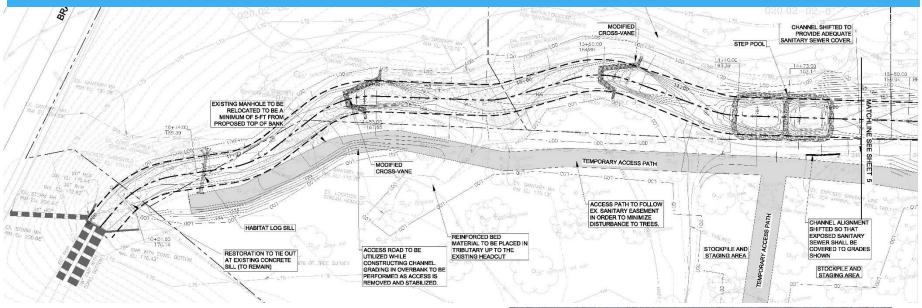
In order to reduce pollution from stormwater runoff, the Virginia General Assembly created and set forth specific parameters for the administration of the Stormwater Local Assistance Fund (SLAF) in 2013. The purpose of the SLAF is to provide matching grants to local governments for the planning, design, and implementation of stormwater best management practices that address cost efficiency and commitments related to reducing water quality pollutant loads. In accordance with that legislation, the State Water Control Board (Board) approved guidelines for the implementation of the SLAF program in 2013 and those guidelines were recently revised by the Board in December 2016. The guidelines call for an annual solicitation of applications, an application review and ranking process, and the authorization of a Project Funding List (PFL) by the DEQ Director. Through the first three rounds of SLAF funding, you have authorized a total of 152 projects totaling approximately \$60 million. A fourth solicitation for SLAF applications was recently conducted for FY 2017 and the applications were received have been evaluated in accordance with the approved guidelines. This memorandum is to inform you of the results of the evaluation process, and the staff recommendations for the authorization of projects to be included in the FY 2017 PFL.







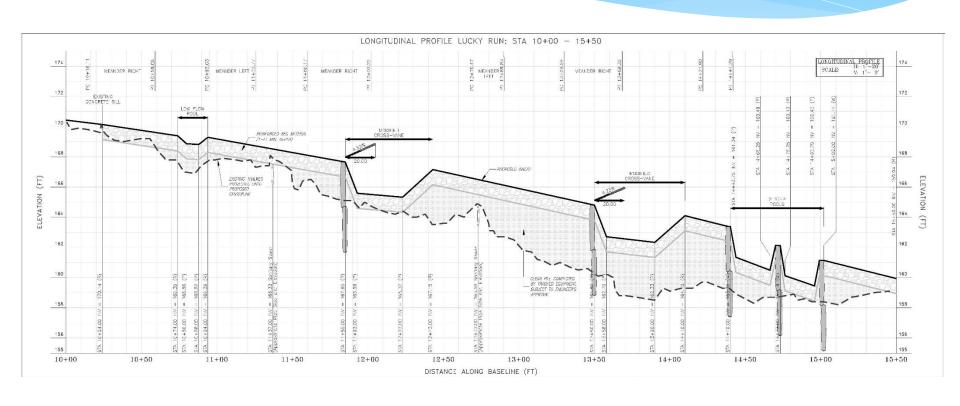








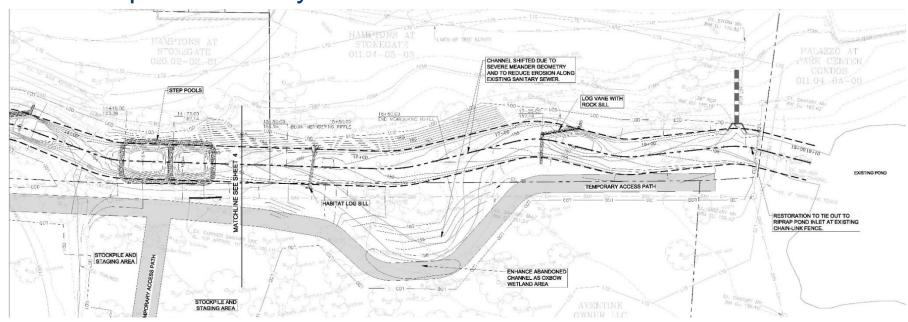
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Survey

* Survey

Completed in May/June 2018



Archaeological Survey

- * Phase 1 Completed July 2018
 - Over 100 shovel test pits were excavated and refilled
 - Identified a few areas to be further investigated



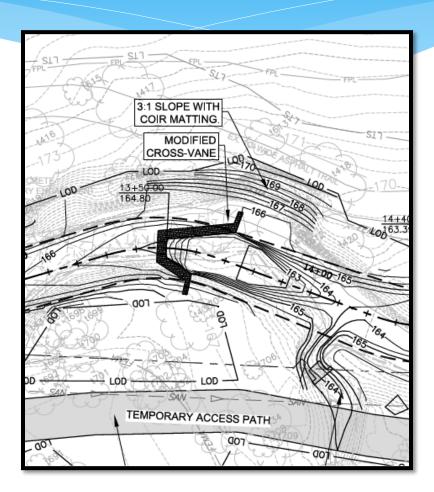
- Six (6) test holes
- Recommended protection of an area near the detention pond
- Designs were modified to remove this area from inside the LOD



Trail Erosion

- * Stream centerline will be shifted
- * Cross vane will be used to divert water away from the path and the center of the stream
- * Bank will be rebuilt





Pond Maintenance

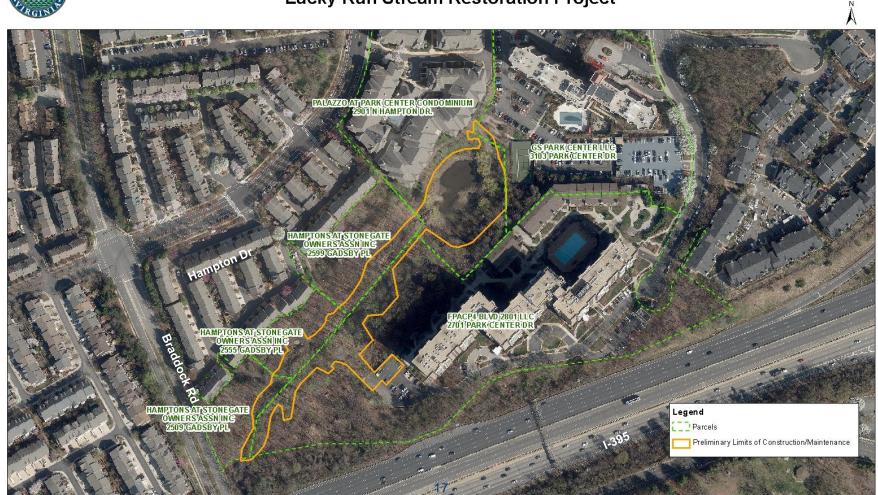
- * As-built conditions
- * Re-establish forebay
- * Remove sediment
- * Plant natives



Construction Disturbance

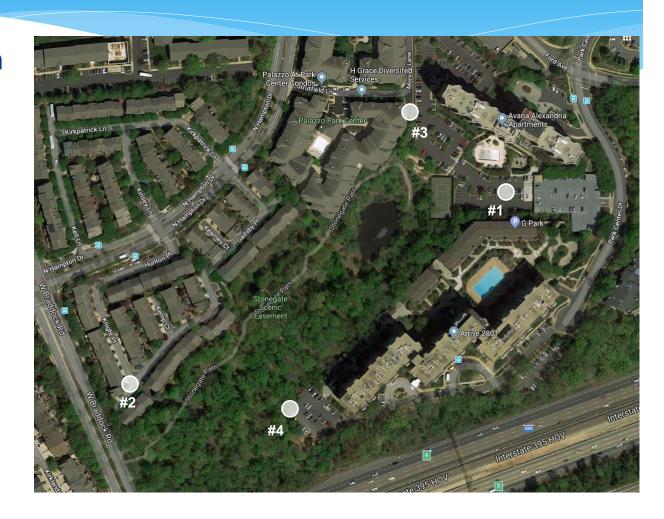


Lucky Run Stream Restoration Project



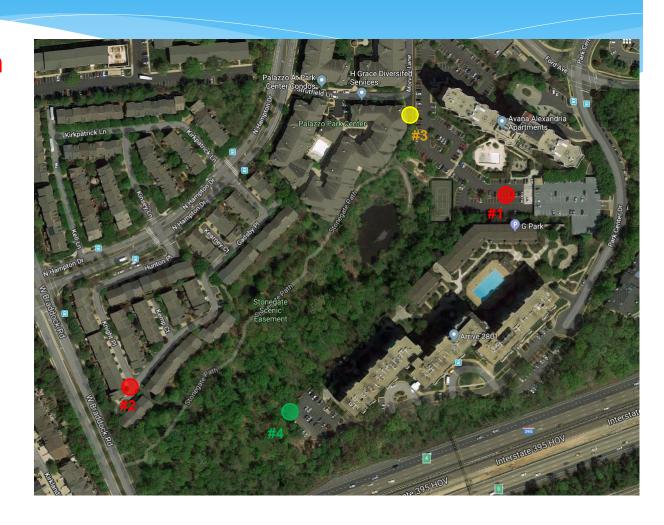
Proposed Construction & Pond Maintenance Access Options

- Avana Through Parking lot
- Stonegate –
 Knight Place and Gadsby Place
- Palazzo Off of Morven Lane
- Arrive 2801 –
 Through guest parking lot



Proposed Construction & Pond Maintenance Access Options

- Avana Through Parking lot
- Stonegate –Knight Place and Gadsby Place
- Palazzo Off of Morven Lane
- 4. Arrive 2801 Through guest parking lot



Timeline - Design

- Update property owners adjacent to project, including Palazzo, Stonegate, Arrive 2801, Avana
 - Ongoing
- * 90% Design
 - Completed March 2019
- * Public Meeting
 - Completed Today, April 11, 2019
- Finalize Bid Documents
 - Anticipated July 2019



MODIFIED CROSS VANE RENDERING: LOOKING UPSTREAM

Anticipated Timeline - Construction

- * Construction Procurement
 - Summer 2019 thru Fall 2019
- * Construction
 - Winter 2019 thru Fall 2020



ROCK STEP RENDERING: LOOKING UPSTREAM



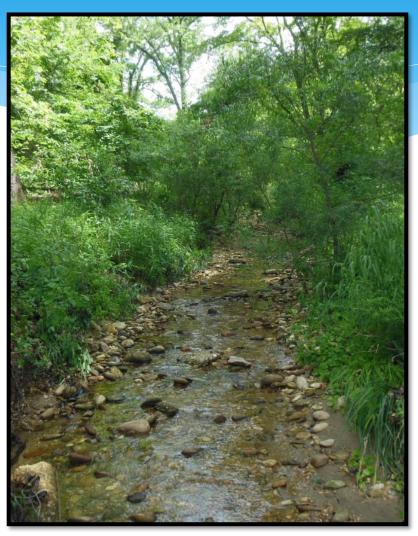
Newly Constructed Rock Step Pools

Strawberry Run – Completed Project



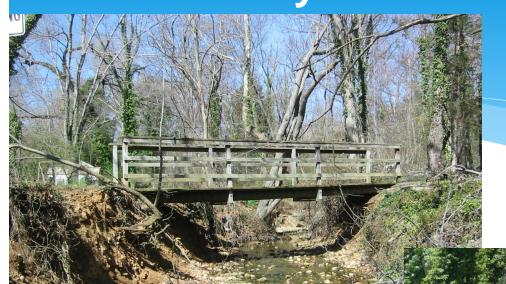


Before - March 2008



After – June 2016

Strawberry Run – Completed Project



After - June 2011

Before - March 2008

Contact Information

- * Lucky Run Stream Restoration, Points of Contact:
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